

sequence as shown in SEQ ID NO:133; (e) the complement of the nucleic acid sequence as shown in SEQ ID NO:133; and (f) altered nucleotide sequences of the nucleic acid sequence as shown in SEQ ID NO:133 due to degeneracy in the genetic code.

2. (Amended) The nucleic acid sequence of Claim 1 comprising [wherein said nucleic acid sequence has the nucleotide sequence of] nucleotide bases 66 through 1187 of SEQ ID NO:1.

3. (Amended) The nucleic acid sequence of Claim 1 comprising [wherein said nucleic acid sequence has the nucleotide sequence of] nucleotide bases 129 through 1187 of SEQ ID NO: 1.

4. (Amended) A nucleic acid sequence coding for at least one antigenic fragment of Cry j I or Cry j II [thereof].

5. (Amended) A nucleic acid sequence of claim 1 wherein said nucleic acid sequence comprises [consists essentially of] at least one antigenic fragment of the coding portion of the nucleic acid sequence of Cry j I as shown in Fig. 4a-b (SEQ ID NO: 1).

7. (Amended) An expression vector comprising a nucleic acid sequence of claim 1 [coding for the Japanese cedar pollen allergen Cry j I] or at least one antigenic fragment thereof.

8. (Amended) The expression vector of claim [5] 7 wherein said nucleic acid sequence [has the nucleotide sequence of] comprises nucleotide bases 66 through 1187 of SEQ ID NO: 1.

9. (Amended) The expression vector of claim 7 wherein said nucleic acid sequence [has the nucleotide sequence of] comprises nucleotide bases 129 through 1187 of SEQ ID NO: 1.

61. (Amended) An isolated nucleic acid sequence having a sequence
encoding all or a portion of a peptide [of claim 56], said peptide or portion thereof
comprising at least one T cell epitope of *Cry j* 1, said peptide having an amino acid
sequence selected from the group consisting of: CJ1-2 (SEQ ID NO: 27), CJ1-3
(SEQ ID NO: 28), CJ1-4 (SEQ ID NO: 29), CJ1-7 (SEQ ID NO: 32), CJ1-8 (SEQ
ID NO: 33), CJ1-9 (SEQ ID NO: 34), CJ1-10 (SEQ ID NO: 35), CJ1-11 (SEQ ID
NO: 36), CJ1-12 (SEQ ID NO: 37), CJ1-14 (SEQ ID NO: 39), CJ1-15 (SEQ ID NO:
40), CJ1-16 (SEQ ID NO: 41), CJ1-17 (SEQ ID NO: 42), CJ1-18 (SEQ ID NO: 43),
CJ1-19 (SEQ ID NO: 44), CJ1-20 (SEQ ID NO: 45), CJ1-21 (SEQ ID NO: 46), CJ1-
22 (SEQ ID NO: 47), CJ1-23 (SEQ ID NO: 48), CJ1-24 (SEQ ID NO: 49), CJ1-25
(SEQ ID NO: 50), CJ1-26 (SEQ ID NO: 51), CJ1-27 (SEQ ID NO: 52), CJ1-30
(SEQ ID NO: 55), CJ1-31 (SEQ ID NO: 56), CJ1-32 (SEQ ID NO: 57), and CJ1-35
(SEQ ID NO: 60), CJI-42.5, (SEQ ID NO: 119) CJI-42.8 (SEQ ID NO: 120), CJI-
43.26 (SEQ ID NO: 121), CJI-43.27 (SEQ ID NO: 122), CJI-43.30 (SEQ ID NO:
123), CJI-43.31 (SEQ ID NO: 124), CJI-43.32 (SEQ ID NO: 125), CJI-43.35 (SEQ
ID NO: 126), CJI-43.36 (SEQ ID NO: 127), CJI-43.39 (SEQ ID NO: 128), CJI-24.5
(SEQ ID NO: 129), CJI-44.5 (SEQ ID NO: 130), CJI-44.6 (SEQ ID NO: 131), CJI-
44.8 (SEQ ID NO: 132), or the functional equivalent of said nucleic acid sequence.

Please add the following new claims:

122. The nucleic acid sequence of Claim 1 comprising nucleotide bases 42 through 1583 of SEQ ID NO:133.

123. The expression vector of claim 7 wherein said nucleic acid sequence is operably linked to at least one control sequence for expression in a compatible host.

124. The nucleic acid of claim 1 wherein said nucleic acid sequence comprises at least one antigenic fragment of the coding portion of the nucleic acid sequence of *Cry j II* as shown in Figure 28 (SEQ ID NO:133).

125. The expression vector of claim 7 wherein said nucleic acid sequence comprises nucleotide bases 42 through 1583 of SEQ ID NO: 133.

126. A nucleic acid sequence capable of hybridizing to the nucleic acid sequence of claim 1, wherein said nucleic acid sequence encodes a protein recognized by T cells specific for *Cry j I* or *Cry j II*.

127. A nucleic acid sequence capable of hybridizing to the nucleic acid sequence of claim 2, wherein said nucleic acid sequence encodes a protein recognized by T cells specific for *Cry j I*.

128. A nucleic acid sequence capable of hybridizing to the nucleic acid sequence of claim 3, wherein said nucleic acid sequence encodes a protein recognized by T cells specific for *Cry j I*.

129. A nucleic acid sequence capable of hybridizing to the nucleic acid sequence of claim 4.

130. A nucleic acid sequence capable of hybridizing to the nucleic acid sequence of claim 61.